

ALKALINE CELL WITH IMPROVED ANODE

ABSTRACT OF THE DISCLOSURE

A method of forming an anode comprising zinc for an alkaline cell. The method involves mixing zinc particles with binders including preferably polyvinylalcohol, surfactant and water to form a wet paste. The wet paste is molded into the near shape of the cell's anode cavity and then heated to evaporate water. A solid porous zinc mass is formed having microscopic void spaces between the zinc particles. The solid mass can be inserted into the cell's anode cavity and aqueous alkaline electrolyte, preferably comprising potassium hydroxide, then added. The solid mass absorbs the aqueous electrolyte and expands to fill the anode cavity to form the final fresh anode.